# SERVICE MANUAL

## MK14 Deck Mechanism Section

**(U29.5: N2440FL)**
**(D6: N2440FL)**
**(W2: N2460FL)**
**(Z13: N2426FT)**

# VIDEO CASSETTE RECORDER
# DVD PLAYER & VIDEO CASSETTE RECORDER
# DVD RECORDER & VIDEO CASSETTE RECORDER
# COLOR TV/VCR COMBINATION

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VHS

# IMPORTANT SAFETY NOTICE

**Proper service and repair is important to the safe, reliable operation of all Funai Equipment. The service procedures recommended by Funai and described in this service manual are effective methods of performing service operations. Some of these service special tools should be used when and as recommended.**

**It is important to note that this service manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It also is important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. Funai could not possibly know, evaluate and advice the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently,**
**Funai has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by Funai must first use all precautions thoroughly so that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.**

# STANDARD MAINTENANCE

## Service Schedule of Components

This maintenance chart shows you the standard of replacement and cleaning time for each part.
Because those may replace depending on environment and purpose for use, use the chart for reference.

| Deck | | Periodic Service Schedule | | | |
|---|---|---|---|---|---|
| **Ref.No.** | **Part Name** | **1,000 h** | **2,000 h** | **3,000 h** | **4,000 h** |
| B2 | Cylinder Assembly | ○ | ● | ○ | ● |
| B3 | Loading Motor Assembly | | | ● | |
| B8 | Pulley Assembly | | ● | | ● |
| B587 | Tension Lever Assembly | | ● | | ● |
| B31 | ACE Head Assembly | | | ● | |
| B573, B574 | Reel (SP)(D2), Reel (TU)(D2) | | | ● | |
| B37 | Capstan Motor | | ● | | ● |
| B52 | Cap Belt | | ● | | ● |
| B73 | FE Head | | | ● | |
| B133, B134 | Idler Gear, Idler Arm | | ● | | ● |
| B410 | Pinch Arm (A) Assembly | | ● | | ● |
| B414 | M Brake (SP) Assembly | | ● | | ● |
| B416 | M Brake (TU) Assembly | | ● | | ● |
| B525 | LDG Belt | | ● | | ● |
| B569 (2 head only) | Cam Holder(F) | | ● | | ● |
| B593 (4 head, 4 head Hi-Fi only) | Cam Holder Assembly | | ● | | ● |

**Notes:**

1. Clean all parts for the tape transport (Upper Drum with Video Head / Pinch Roller / ACE Head / FE Head) using 90% ethyl alcohol.
2. After cleaning the parts, do all DECK ADJUSTMENTS.
3. For the reference numbers listed above, refer to Deck Exploded Views.

# Cleaning

## Cleaning of Video Head

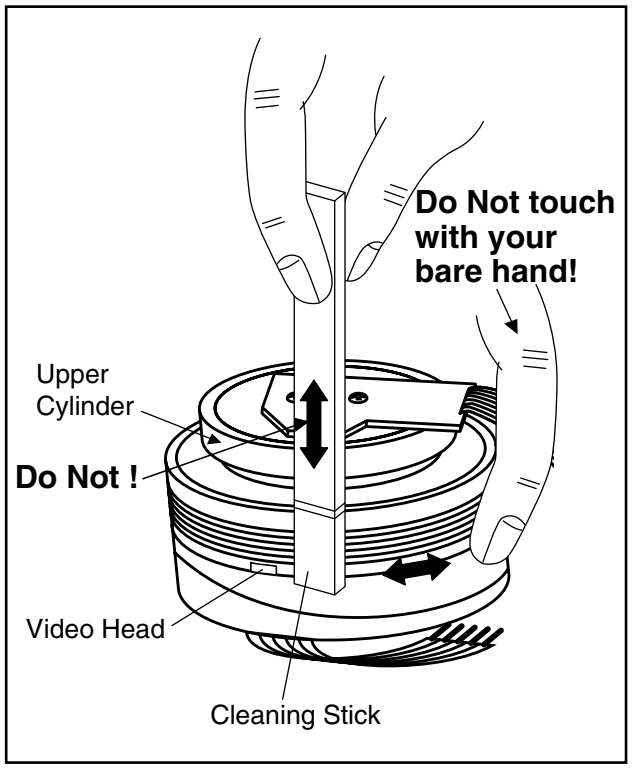
Clean the head with a head cleaning stick or chamois cloth.

**Procedure**

1. Remove the top cabinet.
2. Put on a glove (thin type) to avoid touching the upper and lower drum with your bare hand.
3. Put a few drops of 90% ethyl alcohol on the head cleaning stick or on the chamois cloth and, by slightly pressing it against the head tip, turn the upper drum to the right and to the left.

**Notes:**

1. The video head surface is made of very hard material, but since it is very thin, avoid cleaning it vertically.
2. Wait for the cleaned part to dry thoroughly before operating the unit.
3. Do not reuse a stained head cleaning stick or a stained chamois cloth.




## Cleaning of ACE Head

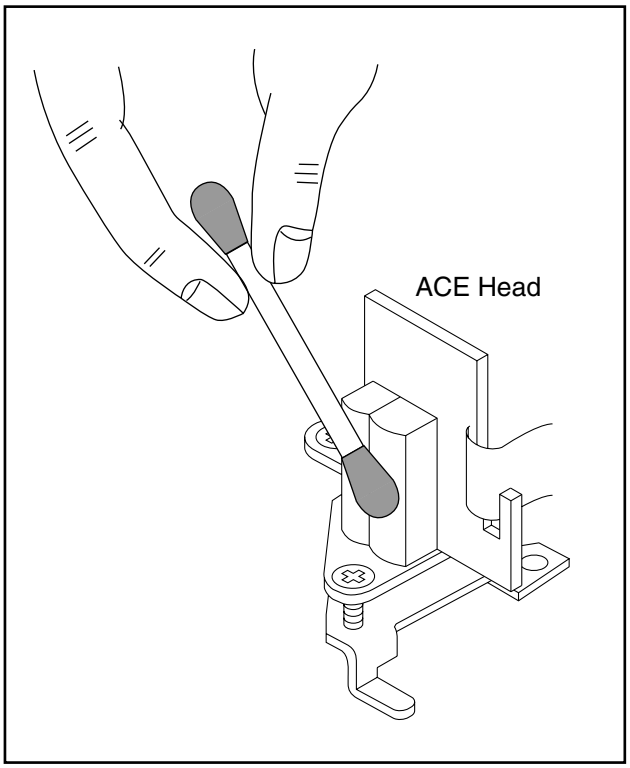
Clean the head with a cotton swab.

**Procedure**

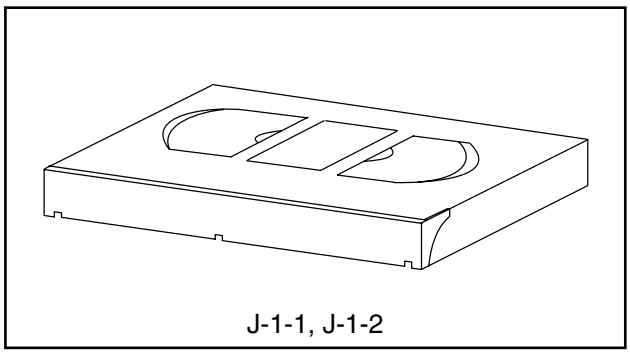
1. Remove the top cabinet.
2. Dip the cotton swab in 90% ethyl alcohol and clean the ACE Head. Be careful not to damage the upper drum and other tape running parts.

**Notes:**

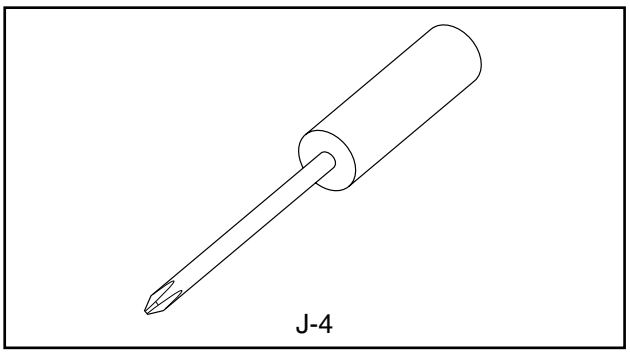
1. Avoid cleaning the ACE Head vertically.
2. Wait for the cleaned part to dry thoroughly before operating the unit or damage may occur.



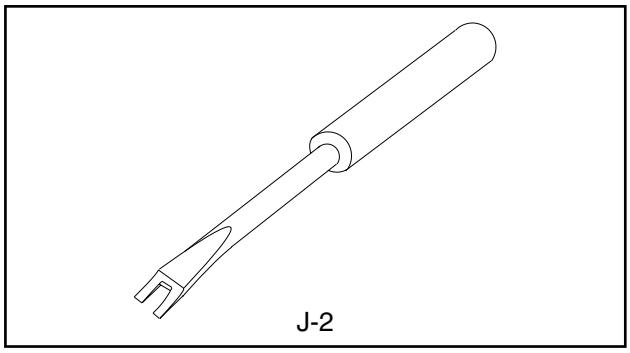
# SERVICE FIXTURE AND TOOLS



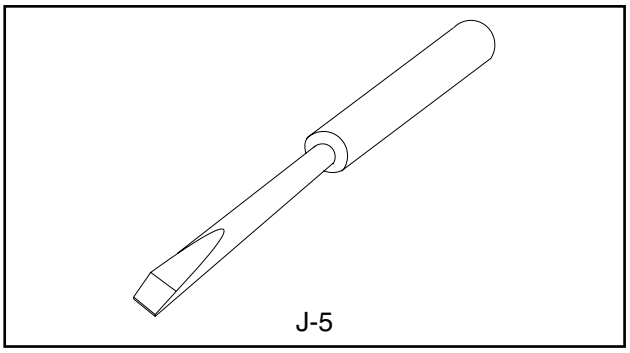
J-1-1, J-1-2



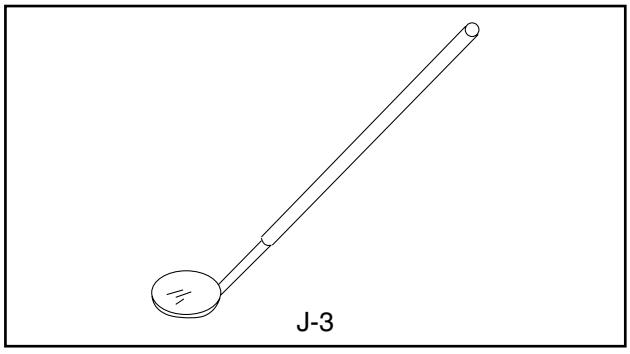
J-4



J-2



J-5



J-3

| Ref. No. | Name | Part No. | Adjustment |
|---|---|---|---|
| J-1-1 | Alignment Tape | FL8A | Head Adjustment of ACE Head |
| J-1-2 | Alignment Tape | FL8N<br>(2 Head only)<br>FL8NW<br>(4 Head only) | Azimuth and X Value Adjustment of ACE Head / Adjustment of Envelope Waveform |
| J-2 | Guide Roller Adj. Screwdriver | Available Locally | Guide Roller |
| J-3 | Mirror | Available Locally | Tape Transportation Check |
| J-4 | Azimuth Adj. Screwdriver + | Available Locally | ACE Head Height |
| J-5 | Flat Screwdriver - | Available Locally | X Value |

# MECHANICAL ALIGNMENT PROCEDURES

Explanation of alignment for the tape to correctly run starts on the next page. Refer to the information below on this page if a tape gets stuck, for example, in the mechanism due to some electrical trouble of the unit.

## Service Information

**A.** Method for Manual Tape Loading/Unloading

To load a cassette tape manually:

1. Disconnect the AC plug.
2. Remove the Top Case and Front Assembly.
3. Insert a cassette tape. Though the tape will not be automatically loaded, make sure that the cassette tape is all the way in at the inlet of the Cassette Holder. To confirm this, lightly push the cassette tape further in and see if the tape comes back out, by a spring motion, just as much as you have pushed in.
4. Turn the LDG Belt in the appropriate direction shown in Fig. M1 for a minute or two to complete this task.

To unload a cassette tape manually:

1. Disconnect the AC plug.
2. Remove the Top Case and Front Assembly.
3. Make sure that the Moving guide preparations are in the Eject Position.
4. Turn the LDG Belt in the appropriate direction shown in Fig. M1 until the Moving guide preparations come to the Eject Position. Stop turning when the preparations begin clicking or can not be moved further. However, the tape will be left wound around the cylinder.
5. Turn the LDG Belt in the appropriate direction continuously, and the cassette tape will be ejected. Allow a minute or two to complete this task.

**B.** Method to place the Cassette Holder in the tape-loaded position without a cassette tape

1. Disconnect the AC Plug.
2. Remove the Top Case and Front Assembly.
3. Turn the LDG Belt in the appropriate direction shown in Fig. M1. Release the locking tabs shown in Fig. M1 and continue turning the LDG Belt until the Cassette Holder comes to the tape-loaded position. Allow a minute or two to complete this task.

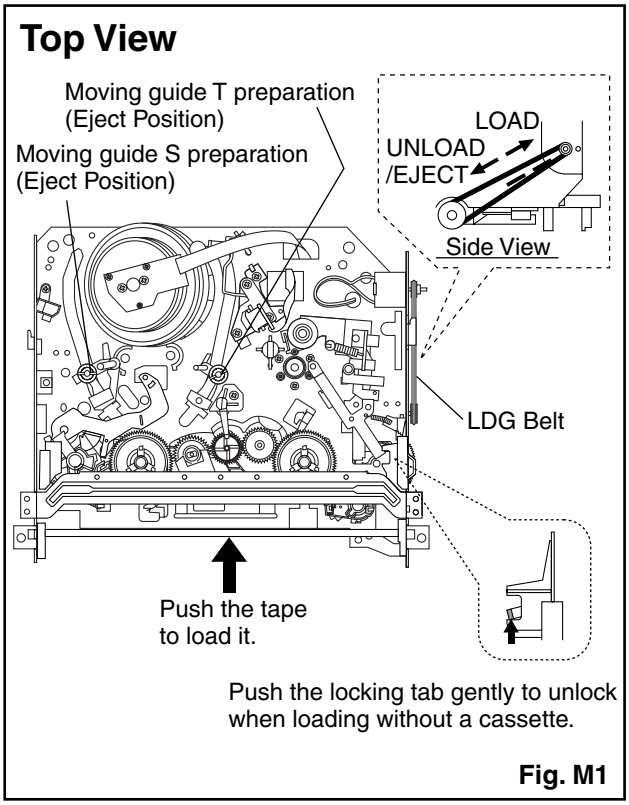



**Fig. M1**

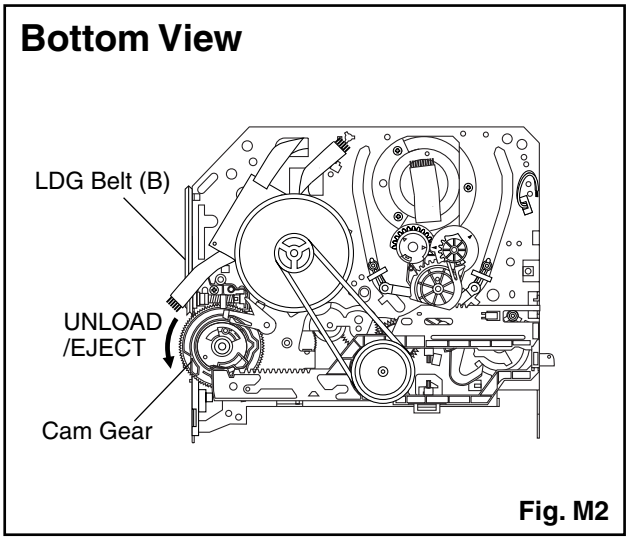



**Fig. M2**

# 1. Tape Interchangeability Alignment

**Note:** To do these alignment procedures, make sure that the Tracking Control Circuit is set to the preset position every time a tape is loaded or unloaded. (Refer to page 2-3-4, procedure 1-C, step 2.)

**Equipment required:**

Dual Trace Oscilloscope

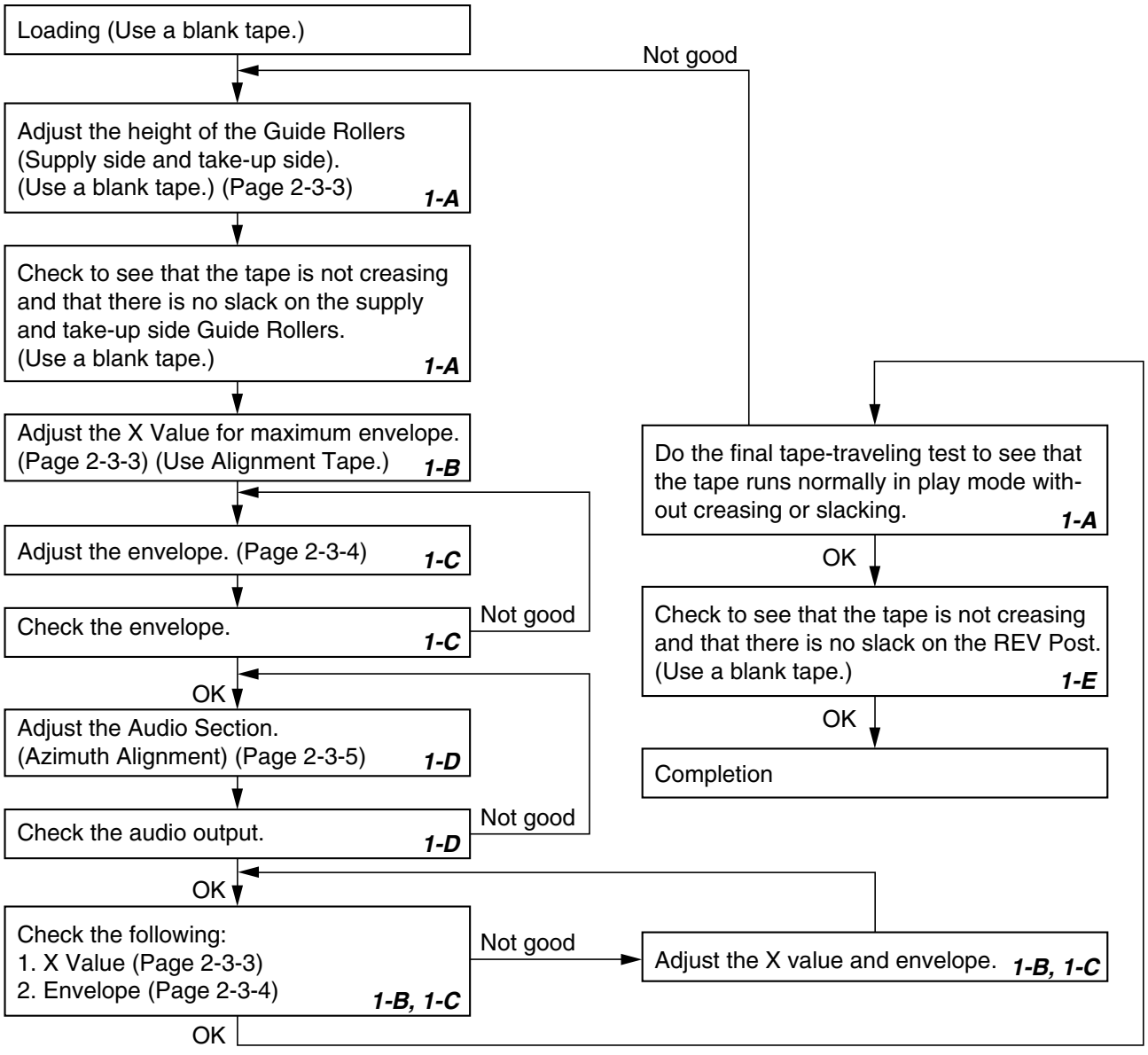
VHS Alignment Tape (FL8N --- 2 head model, FL8NW --- 4 head model)

Guide Roller Adj. Screwdriver

Flat Screwdriver (Purchase Locally)

**Note:** Before starting this Mechanical Alignment, do all Electrical Adjustment procedures.

**Flowchart of Alignment for tape traveling**


Loading (Use a blank tape.)
Not good
Adjust the height of the Guide Rollers (Supply side and take-up side). (Use a blank tape.) (Page 2-3-3) 1-A
Check to see that the tape is not creasing and that there is no slack on the supply and take-up side Guide Rollers. (Use a blank tape.) 1-A
Adjust the X Value for maximum envelope. (Page 2-3-3) (Use Alignment Tape.) 1-B
Adjust the envelope. (Page 2-3-4) 1-C
Check the envelope. 1-C
Not good
OK
Adjust the Audio Section. (Azimuth Alignment) (Page 2-3-5) 1-D
Check the audio output. 1-D
Not good
OK
Check the following:
1. X Value (Page 2-3-3)
2. Envelope (Page 2-3-4) 1-B, 1-C
Not good
Adjust the X value and envelope. 1-B, 1-C
OK
Do the final tape-traveling test to see that the tape runs normally in play mode without creasing or slacking. 1-A
OK
Check to see that the tape is not creasing and that there is no slack on the REV Post. (Use a blank tape.) 1-E
OK
Completion

## 1-A. Preliminary/Final Checking and Alignment of Tape Path

**Purpose:** To make sure that the tape path is well stabilized.

**Symptom of Misalignment:** If the tape path is unstable, the tape will be damaged.

**Note:** Do not use an Alignment Tape for this procedure. If the unit is not correctly aligned, the tape may be damaged.

1. Playback a blank cassette tape and check to see that the tape runs without creasing at Guide Rollers [2] and [3], and at points A and B on the lead surface. (Refer to Fig. M3 and M4.)
2. If creasing is apparent, align the height of the guide rollers by turning the top of Guide Rollers [2] and [3] with a Guide Roller Adj. Screwdriver. (Refer to Fig. M3 and M5.)

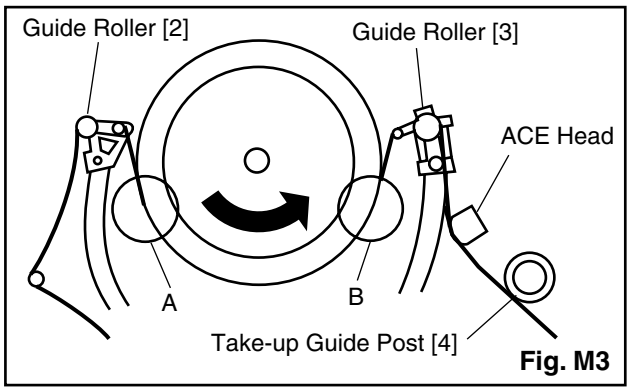


**Fig. M3**

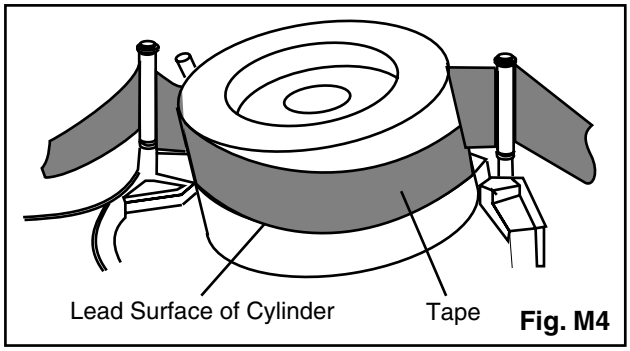


**Fig. M4**

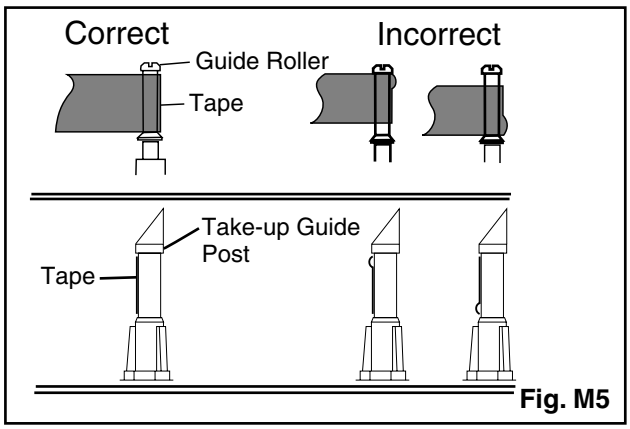


**Fig. M5**

3. Check to see that the tape runs without creasing at Take-up Guide Post [4] or without snaking between Guide Roller [3] and ACE Head. (Fig. M3 and M5)
4. If creasing or snaking is apparent, adjust the Tilt Adj. Screw of the ACE Head. (Fig. M6)

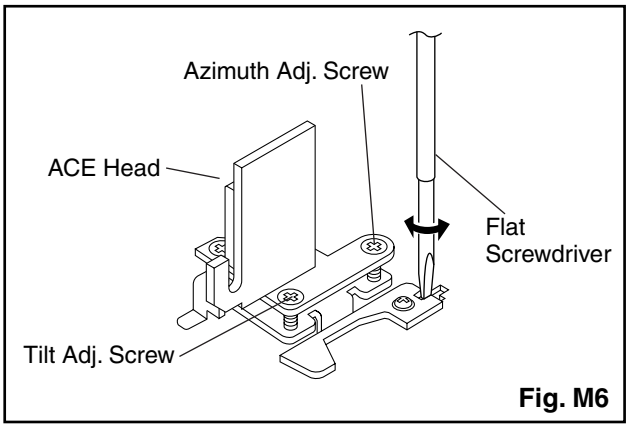


**Fig. M6**

## 1-B. X Value Alignment

**Purpose:** To obtain maximum PB FM envelope signal at the preset position of the Tracking Control Circuit, align the Horizontal Position of the ACE Head.

**Symptom of Misalignment:** If the Horizontal Position of the ACE Head is not properly aligned, maximum PB FM envelope cannot be obtained at the preset position of the Tracking Control Circuit.

1. Connect the oscilloscope to TP (C-PB and CTL) on the Main CBA. Use TP (RF-SW) as a trigger.
2. Playback the Gray Scale of the Alignment Tape (FL8N --- 2 head model, FL8NW --- 4 head model) and confirm that the PB FM signal is present.
3. Set the Tracking Control Circuit to the preset position by pressing [CH UP] button on the unit then [PLAY] button on the unit. (Refer to note on bottom of page 2-3-4.)
4. Use the Flat Screwdriver so that the PB FM signal at TP (C-PB) is maximum. (Fig. M6)

5. To shift the CTL waveform, press [CH UP] or [CH DOWN] buttons on the unit. Then make sure that the maximum output position of PB FM envelope signal becomes within ±2ms from preset position.

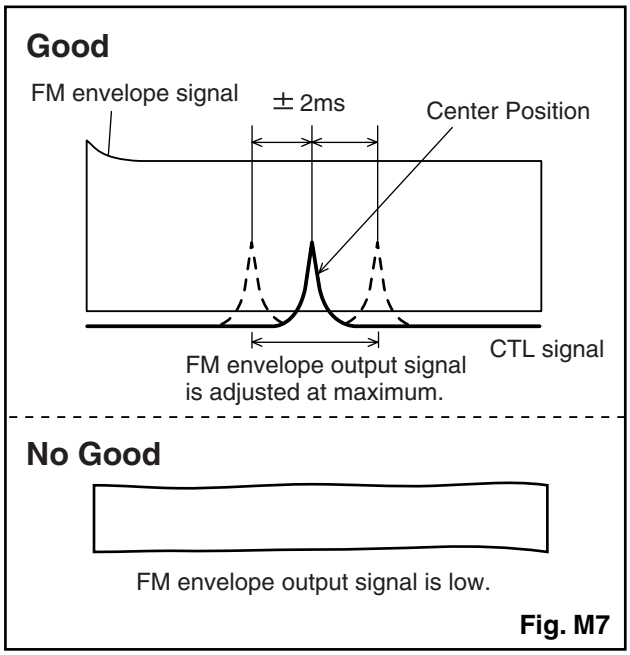



**Fig. M7**

6. Set the Tracking Control Circuit to the preset position by pressing [CH UP] button on the unit and then [PLAY] button on the unit.

## 1-C. Checking/Adjustment of Envelope Waveform

**Purpose:** To achieve a satisfactory picture, adjust the Guide Rollers so that the PB FM envelope becomes as flat as possible.

**Symptom of Misalignment:** If the envelope output is poor, noise will appear in the picture. The tracking will then lose precision and the playback picture will be distorted by any slight variation of the Tracking Control Circuit.

1. Connect the oscilloscope to TP (C-PB) on the Main CBA. Use TP (RF-SW) as a trigger.
2. Playback the Gray Scale on the Alignment Tape (FL8N --- 2 head model, FL8NW --- 4 head model). Set the Tracking Control Circuit to the preset position by pressing [CH UP] button on the unit and then [PLAY] button on the unit. Adjust the height of Guide Rollers [2] and [3] (Fig. M3, Page 2-3-3) watching the oscilloscope display so that the envelope becomes as flat as possible. To do this adjustment, turn the top of the Guide Roller with the Guide Roller Adj. Screwdriver.
3. If the envelope is as shown in Fig. M7, adjust the height of Guide Roller [2] (Refer to Fig. M3) so that the waveform looks like the one shown in Fig. M9.
4. If the envelope is as shown in Fig. M8, adjust the height of Guide Roller [3] (Refer to Fig. M3) so that the waveform looks like the one shown in Fig. M9.
5. When Guide Rollers [2] and [3] (Refer to Fig. M3) are aligned properly, there is no envelope drop either at the beginning or end of track as shown in Fig. M9.

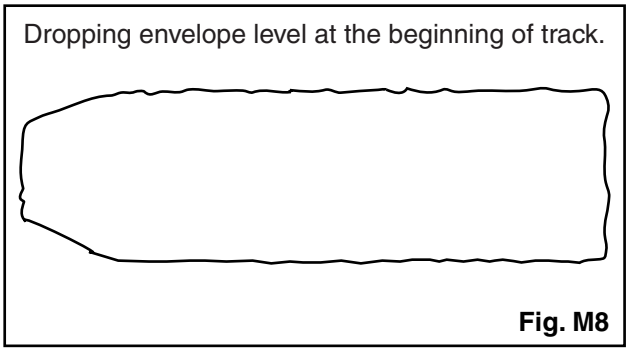



**Fig. M8**

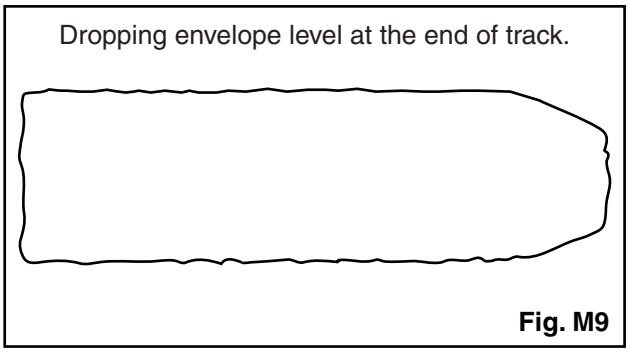



**Fig. M9**

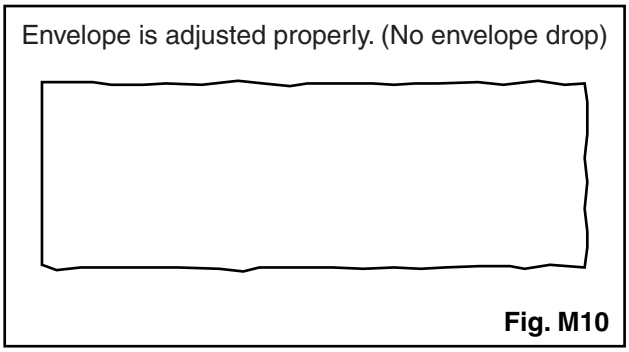



**Fig. M10**

**Note:** Upon completion of the adjustment of Guide Rollers [2] and [3] (Refer to Fig. M3), check the X Value by pushing the [CH UP] or [CH DOWN] buttons on the unit alternately, to check the symmetry of the envelope. Check the number of pushes to ensure preset position. The number of pushes of the [CH UP] button to achieve 1/2 level of envelope should match the number of pushes of the [CH DOWN] button from center. If required, redo the “X Value Alignment.”

## 1-D. Azimuth Alignment of Audio/Control/ Erase Head

**Purpose:** To correct the Azimuth alignment so that the Audio/Control/Erase Head meets tape tracks properly.

**Symptom of Misalignment:** If the position of the Audio/Control/Erase Head is not properly aligned, the Audio S/N Ratio or Frequency Response will be poor.

1. Connect the oscilloscope to the audio output jack on the rear side of the deck.
2. Playback the alignment tape (FL8N --- 2 head model, FL8NW --- 4 head model) and confirm that the audio signal output level is 8kHz.
3. Adjust Azimuth Adj. Screw so that the output level on the AC Voltmeter or the waveform on the oscilloscope is at maximum. (Fig. M6)

**Note:** Upon completion of the adjustment of Azimuth Adj. Screw, check the X Value by pushing the [CH UP] or [CH DOWN] buttons on the unit alternately, to check the symmetry of the envelope. Check the number of pushes to ensure preset position. The number of pushes of the [CH UP] button to achieve 1/2 level of envelope should match the number of pushes of the [CH DOWN] button from center. If required, redo the "X Value Alignment."

## 1-E. Checking and Alignment of Tape Path during reversing

**Purpose:** To make sure that the tape path is well stabilized during reversing.

**Symptom of Misalignment:** If the tape path is unstable during reversing, the tape will be damaged.

**Note:** Do not use an Alignment Tape for this procedure. If the unit is not correctly aligned, the tape may be damaged.

1. Insert a blank cassette tape into the tray and set the unit to REV. Then confirm if the tape has been curled up or bent at the Take-up Guide Post[4] or REV Post[5]. (Refer to Fig. M11 and M12.)
2. When the tape has been curled up or bent, turn the alignment screw to adjust the height of REV Post. (Refer to Fig. M11 and M13.)

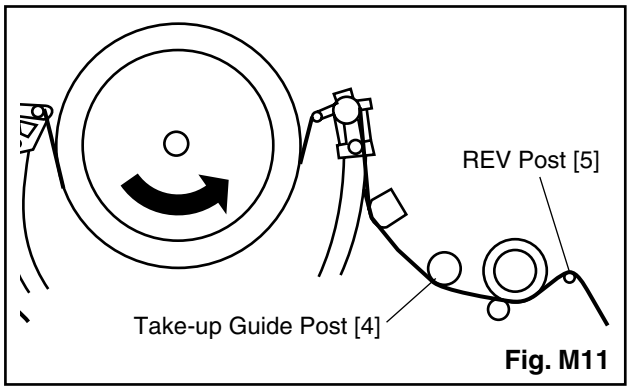


**Fig. M11**

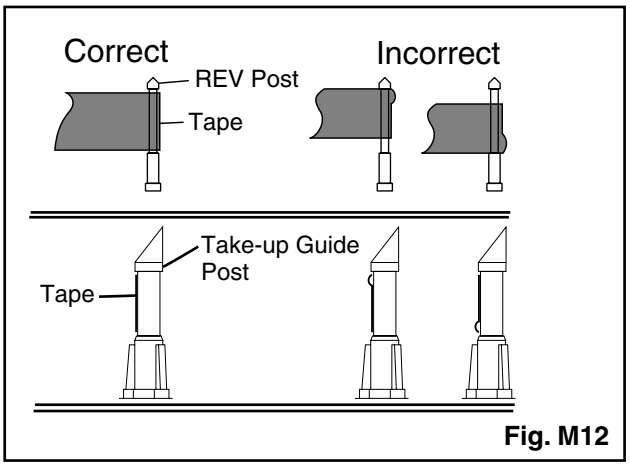


**Fig. M12**

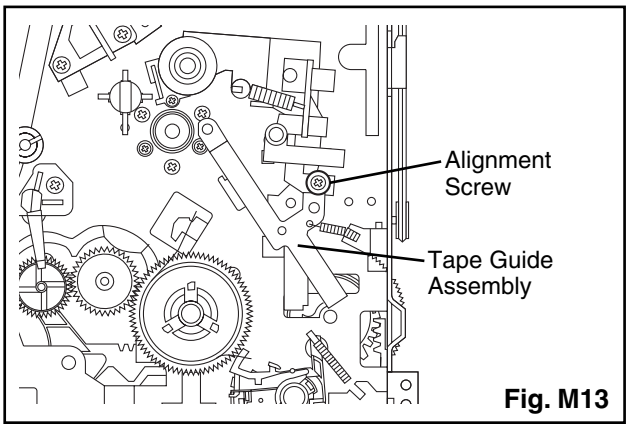


**Fig. M13**

# DISASSEMBLY/ASSEMBLY PROCEDURES OF DECK MECHANISM

Before following the procedures described below, be sure to remove the deck assembly from the cabinet. (Refer to CABINET DISASSEMBLY INSTRUCTIONS of Main Section.)
All the following procedures, including those for adjustment and replacement of parts, should be done in Eject mode; see the positions of [41] and [42] in Fig. DM1 on page 2-4-3. When reassembling, follow the steps in reverse order.

**Comparison Chart of Models and Marks**

| Model | Mark |
|---|---|
| N2426FT | A |
| N2440FL | B |
| N2460FL | C |

| Step /Loc. No. | Starting No. | Part | | Removal | | Installation |
|---|---|---|---|---|---|---|
| | | | | Fig. No. | Remove/*Unhook/ Unlock/Release/ Unplug/Desolder | Adjustment Condition |
| [1] | [1] | Guide Holder A | T | DM3 | 2(S-1) | |
| [2] | [1] | Cassette Holder Assembly | T | DM4 | (S-10) --- **[ A ]** | |
| [3] | [2] | Slider (SP) | T | DM5 | (S-1A), *(L-1) | |
| [4] | [2] | Slider (TU) | T | DM5 | *(L-2) | |
| [5] | [4] | Lock Lever | T | DM5 | *(L-3), *(P-1) | |
| [6] | [2] | Cassette Plate | T | DM5 | | |
| [7] | [7] | Cylinder Assembly | T | DM1, DM6 | Desolder, 3(S-2) | |
| [8] | [8] | Loading Motor Assembly | T | DM1, DM7 | Desolder, LDG Belt, 2(S-3) | |
| [9] | [9] | ACE Head Assembly | T | DM1, DM7 | (S-4) | |
| [10] | [2] | Tape Guide Arm Assembly | T | DM1, DM8-1 | *(P-2) | |
| [11] | [10] | C Door Opener | T | DM1, DM8-1 | (S-4A), *(L-4) | |
| [12] | [11] | Pinch Arm (B) | T | DM1, DM8-1, DM8-2 | *(P-3) | |
| [13] | [12] | Pinch Arm (A) Assembly | T | DM1, DM8-1, DM8-2 | | |
| [14] | [14] | FE Head | T | DM1, DM9 | (S-5) | |
| [15] | [15] | Prism | T | DM1, DM9 | (S-6) | |
| [16] | [2],[15] | Sensor Gear | T | DM1, DM9 | | |
| [17] | [2] | Slider Shaft | T | DM10 | *(L-5) | |
| [18] | [17] | C Drive Lever (SP) | T | DM10 | | |
| [19] | [17] | C Drive Lever (TU) | T | DM10 | (S-7), *(P-4) | |
| [20] | [7],[8], [10] | Capstan Motor | B | DM2, DM11 | 3(S-8), Cap Belt | |
| [21] | [21] | Clutch Assembly | B | DM2, DM12 | (C-1) | |
| [22] | [22] | Cam Holder(F) --- **[ A ]** Cam Holder Assembly --- **[ B,C ]** | B | DM2, DM12 | *(L-6) | |
| [23] | [23] | Cam Gear (B) | B | DM2, DM12 | (C-2), *(P-5) | |
| [24] | [24] | Mode Gear | B | DM2, DM13-1 | (C-3) | |

| Step /Loc. No. | Starting No. | Part | | Removal | | Installation |
|---|---|---|---|---|---|---|
| | | | | Fig. No. | Remove/*Unhook/ Unlock/Release/ Unplug/Desolder | Adjustment Condition |
| [25] | [21], [23], [24] | Mode Lever | B | DM2, DM13-1, DM13-2 | (C-4), *(L-8) | |
| [26] | [22] | Worm Holder | B | DM2, DM13-1 | (S-9), *(L-9), *(L-10) | |
| [27] | [26] | Pulley Assembly | B | DM2, DM13-1 | | |
| [28] | [25], [26] | Cam Gear (A) | B | DM2, DM13-1, DM13-2 | | |
| [29] | [25] | Idler Gear | B | DM1, DM14 | | |
| [30] | [29] | Idler Arm | B | DM1, DM14 | *(L-11) | |
| [31] | [25] | BT Arm | B | DM2, DM14 | *(P-6) | |
| [32] | [25] | Loading Arm (SP) Assembly | B | DM2, DM14 | | (+)Refer to Alignment Sec.Page 2-5-1 |
| [33] | [32] | Loading Arm (TU) Assembly | B | DM2, DM14 | | (+)Refer to Alignment Sec.Page 2-5-1 |
| [34] | [2], [25] | M Brake (TU) Assembly | T | DM1, DM15 | *(P-7), Brake Belt | |
| [35] | [2], [25] | M Brake (SP) Assembly | T | DM1, DM15 | *(P-8) | |
| [36] | [35] | Tension Lever Assembly | T | DM1, DM15 | | |
| [37] | [36] | T Lever Holder | T | DM15 | *(L-12) | |
| [38] | [34] | Reel (TU)(D2) | T | DM1, DM15 | | |
| [39] | [38] | M Gear | T | DM1, DM15 | | |
| [40] | [36] | Reel (SP)(D2) | T | DM1, DM15 | | |
| [41] | [32], [36] | Moving Guide S Preparation | T | DM1, DM16 | (S-11), Slide Plate --- **[ B,C ]** | |
| [42] | [33] | Moving Guide T Preparation | T | DM1, DM16 | | |
| [43] | [19] | TG Post Assembly | T | DM1, DM16 | *(L-13) | |
| [44] | [28] | Rack Assembly | R | DM17 | | (+)Refer to Alignment Sec.Page 2-5-1 |
| [45] | [44] | F Door Opener | R | DM17 | *(P-9) --- **[ A ]** | |
| [46] | [46] | Cleaner Assembly | T | DM1, DM6 | | |
| [47] | [46] | CL Post | T | DM6 | *(L-14) | |
| ↓ (1) | ↓ (2) | ↓ (3) | ↓ (4) | ↓ (5) | ↓ (6) | ↓ (7) |

(1): Follow steps in sequence. When reassembling, follow the steps in reverse order.
These numbers are also used as identification (location) No. of parts in the figures.

(2): Indicates the part to start disassembling with in order to disassemble the part in column (1).

(3): Name of the part

(4): Location of the part: T = Top, B = Bottom, R = Right, L = Left

(5): Figure Number

(6): Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
P = Spring, W = Washer, C = Cut Washer, S = Screw, * = Unhook, Unlock, Release, Unplug, or Desolder
e.g., 2(L-2) = two Locking Tabs (L-2).

(7): Adjustment Information for Installation
(+):Refer to Deck Exploded Views for lubrication.

## Top View

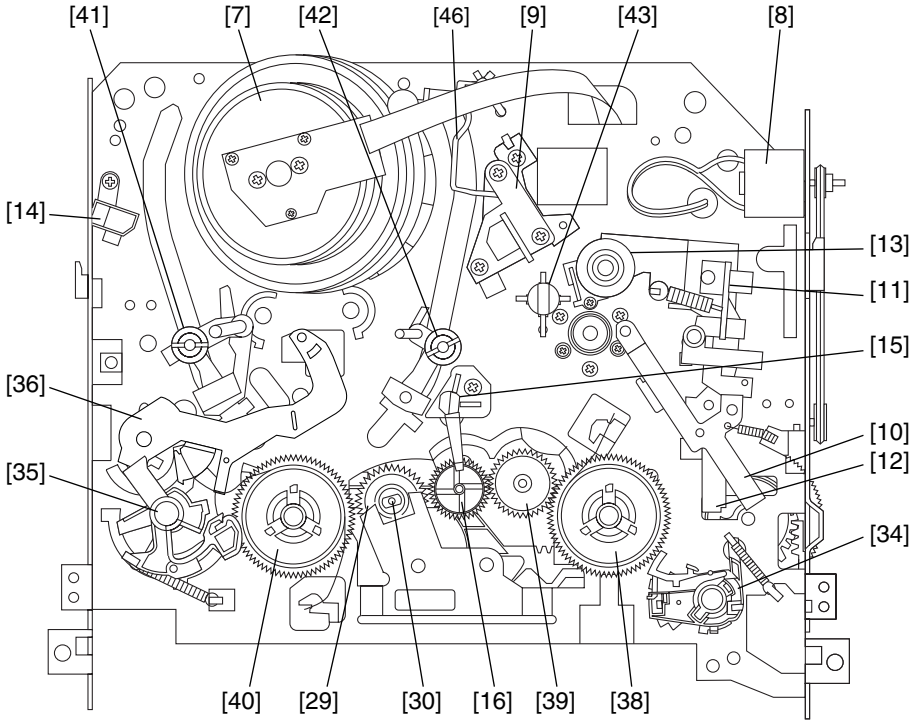



**Fig. DM1**

## Bottom View

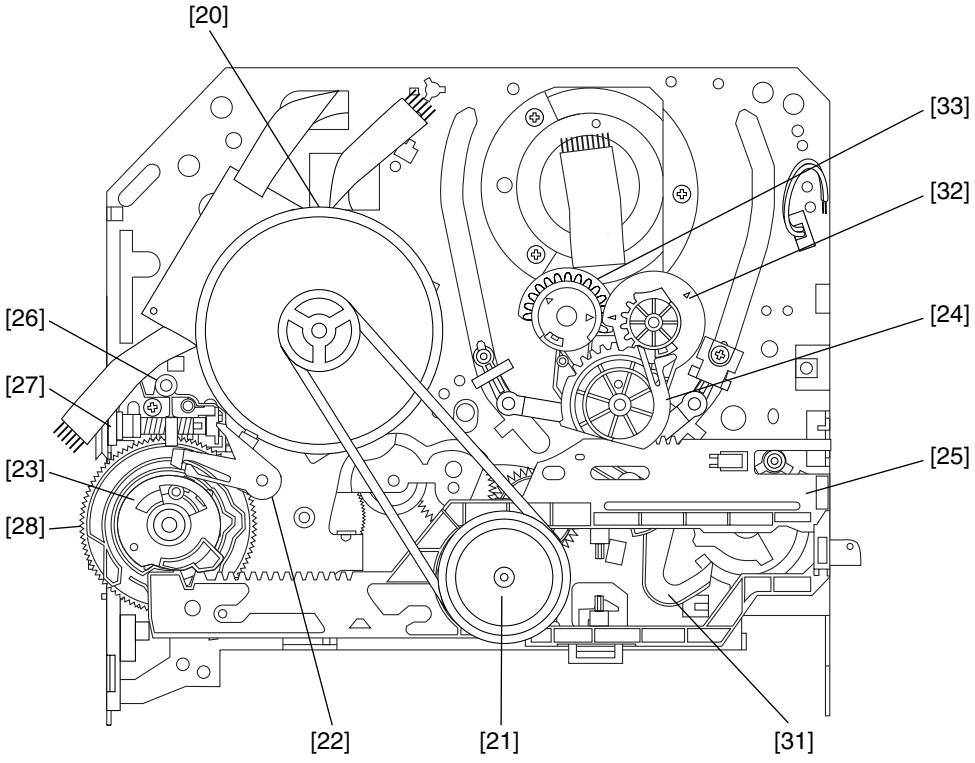



**Fig. DM2**

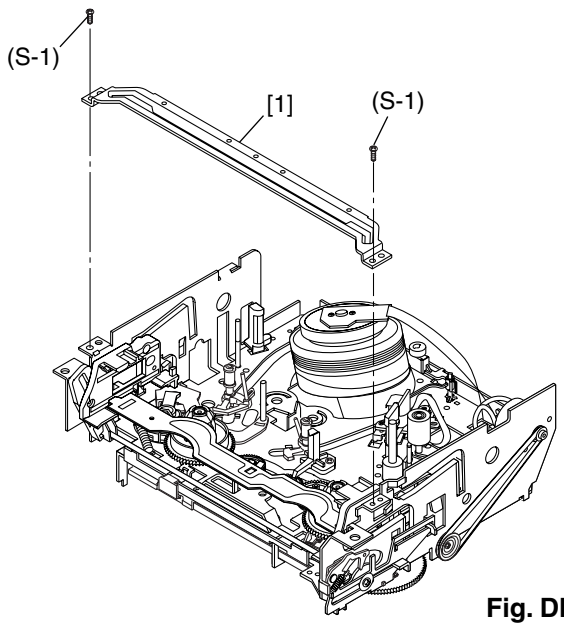
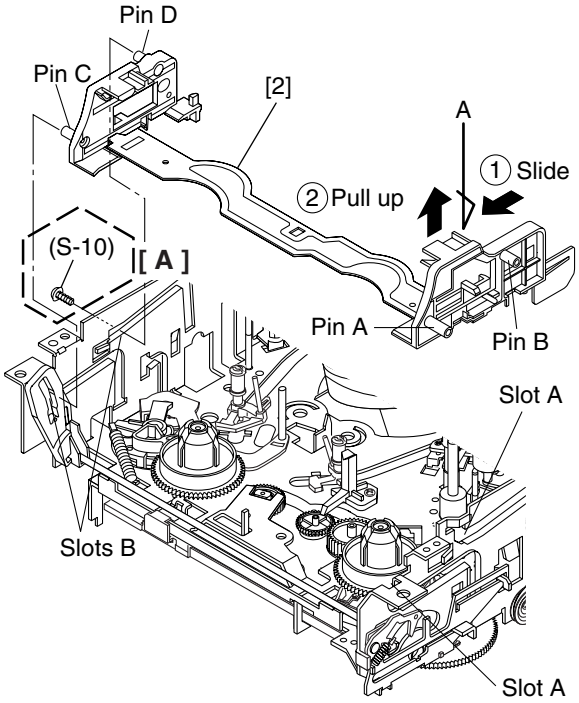



**Fig. DM3**




First, while pushing the locking tab as shown at right, slide and pull up the right side on [2] to release Pin A and Pin B from the slots A.
Then, remove Pin C and Pin D on [2] from the slots B as shown.

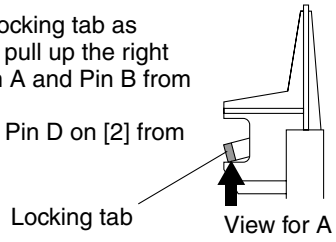
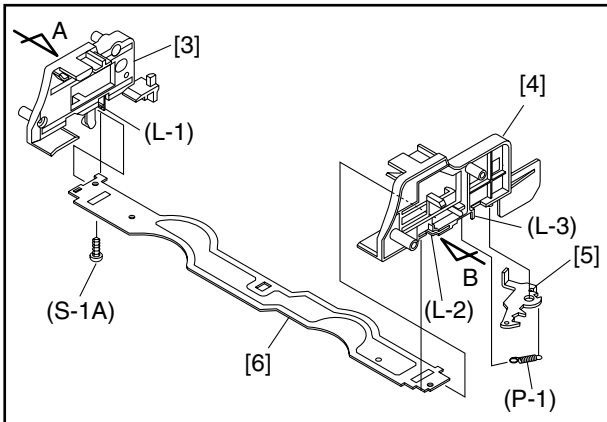
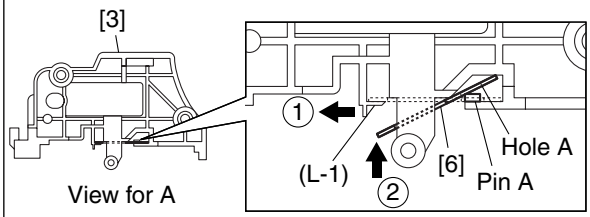



**Fig. DM4**




## Installation of [3] and [6]

First, insert [6] diagonally in [3] as shown below. Then, install [6] in [3] while pushing (L-1) in a direction of arrow. After installing [6] in [3], confirm that pin A of [3] enters hole A of [6] properly.




## Installation of [4] and [6]

Install [6] in [4] while pulling (L-2) in a direction of arrow. After installing [6] in [4], confirm that pin B of [4] enters hole B of [6] properly.

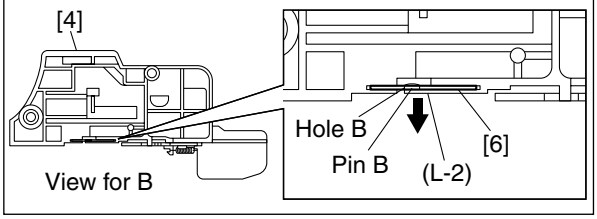



**Fig. DM5**

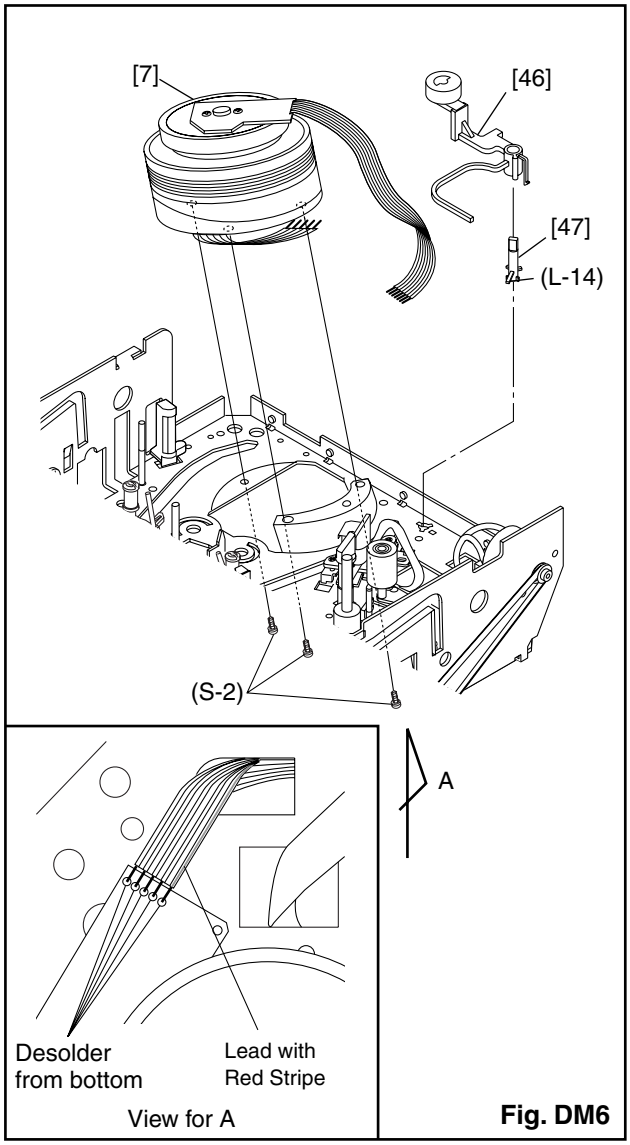



**Fig. DM6**

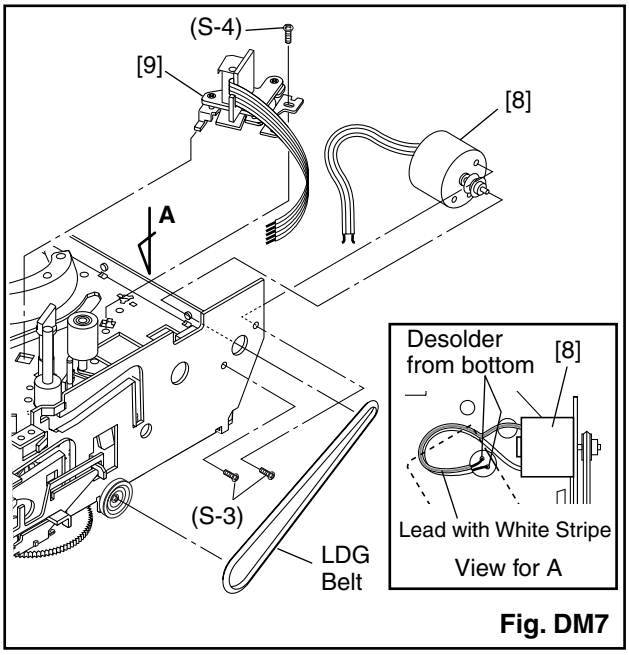



**Fig. DM7**

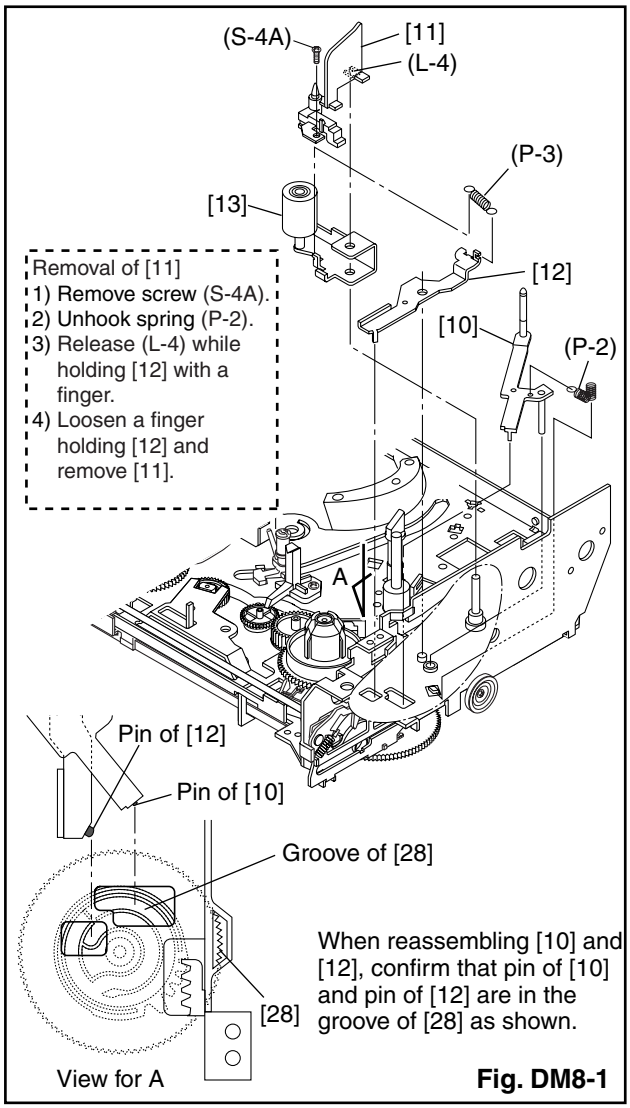



**Fig. DM8-1**

## Installation of [13] and [12]

Hook spring (P-3) up to [12] and [13], then install them to the specified position so that [12] will be floated slightly while holding [12] and [13]. (Refer to Fig. A.)

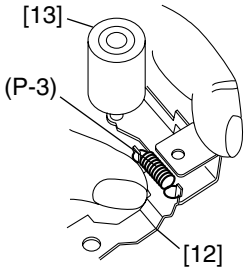



**Fig. A**

Install pin of [12] in groove of [28]. (Refer to Fig. B.)

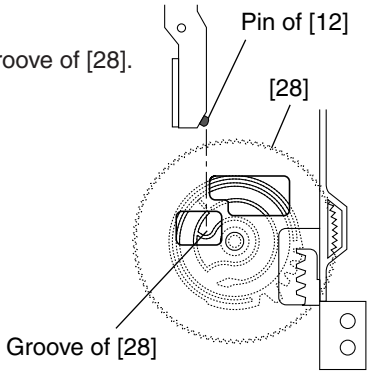



**Fig. B** (Top view)

Press both [12] and [13] till the groove of chassis pin appears, and adjust [13] to the notch of chassis. Then turn [13] a little in the direction of the arrow while pressing [12]. (Refer to Fig. C.)

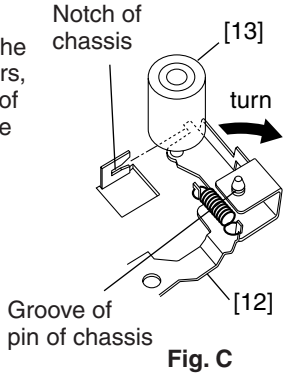



**Fig. C**

Install [11] and [10] while holding [12]. (Refer to Fig. DM8-1.)

**Fig. DM8-2**

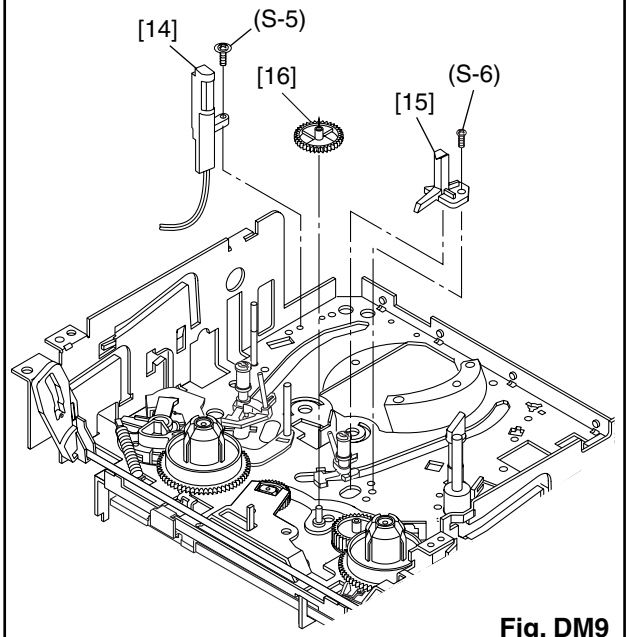



**Fig. DM9**

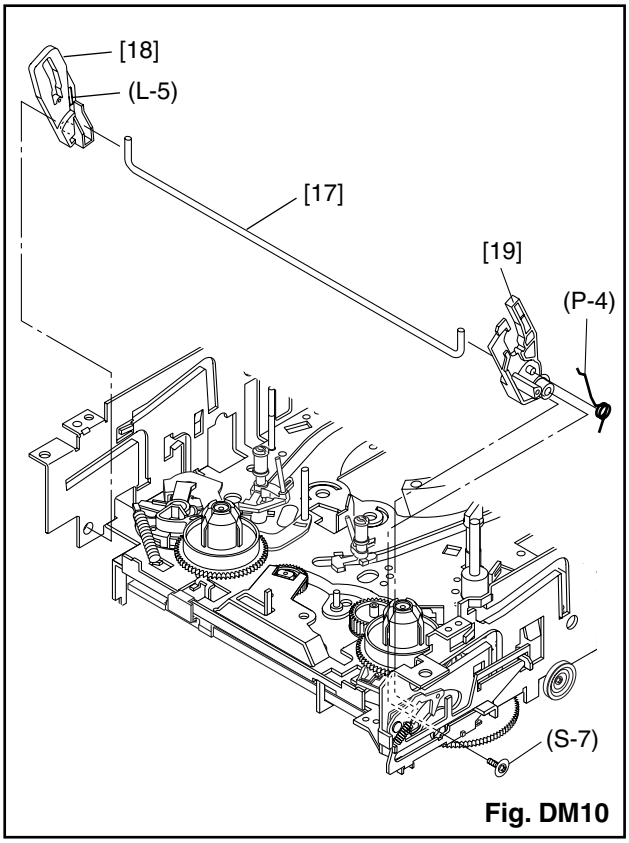
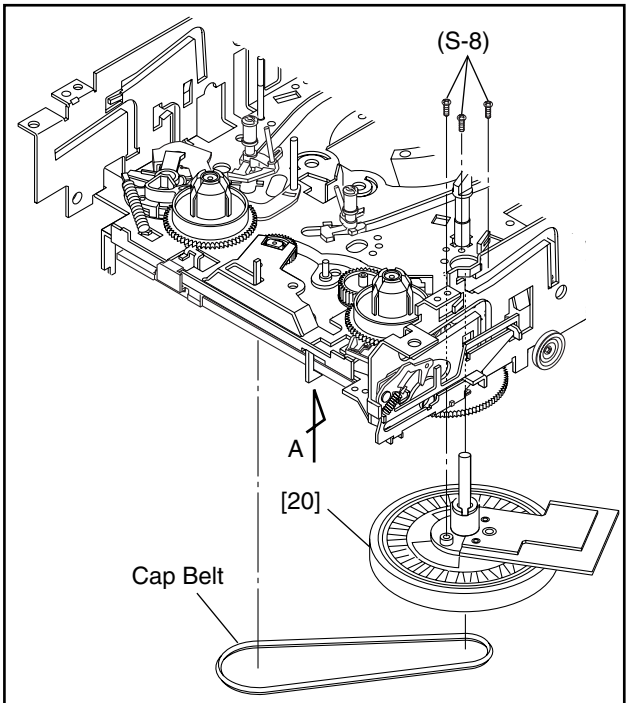
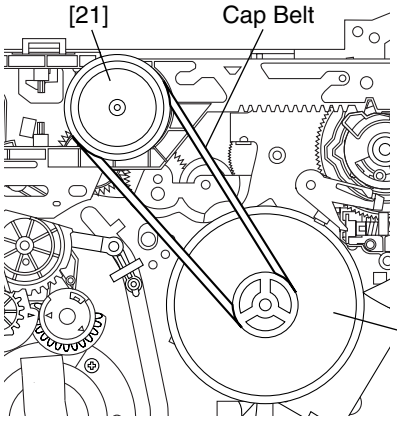



**Fig. DM10**

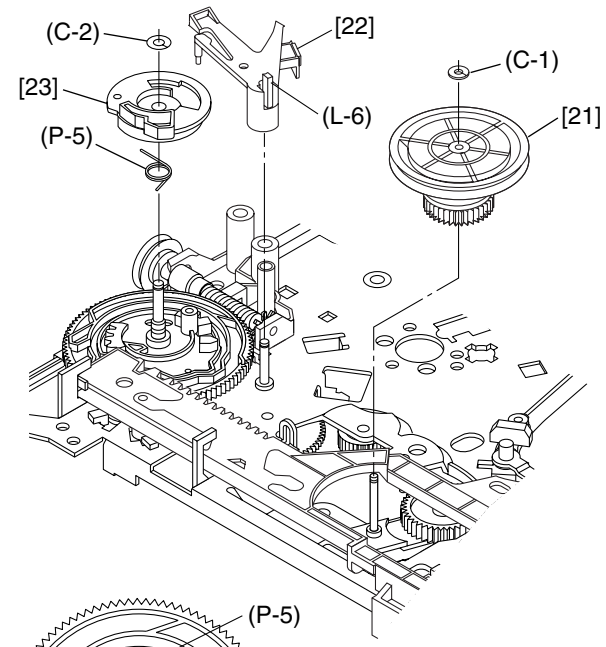


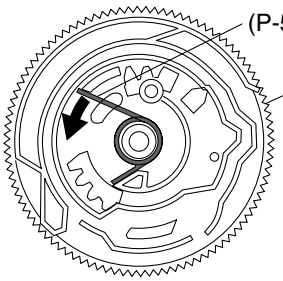

Installation position of Cap Belt



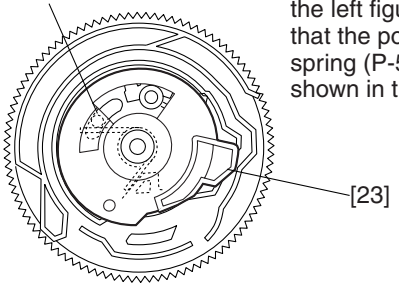

View for A

**Fig. DM11**



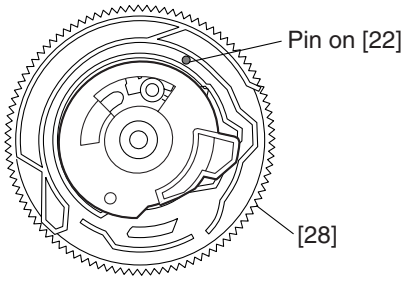




Pin on bottom of [23]




Top View

When installing [23], install the spring (P-5) to [28] as shown in the left figure, and then install [23] while pressing the spring (P-5) in the direction of the arrow in the left figure and confirming that the position of the spring (P-5) is placed as shown in the left figure.




Position of pin on [22]

**Fig. DM12**

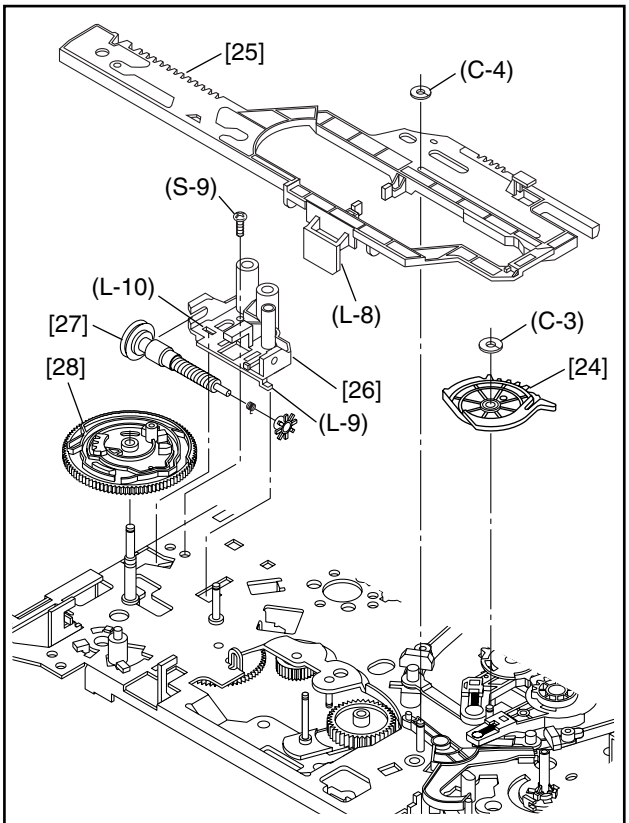
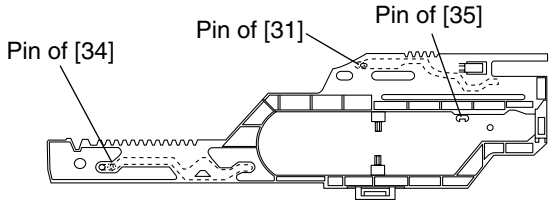
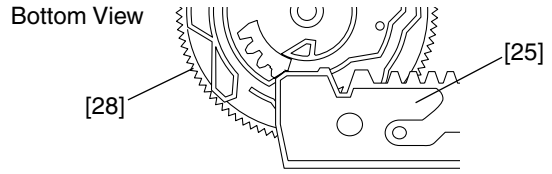



**Fig. DM13-1**

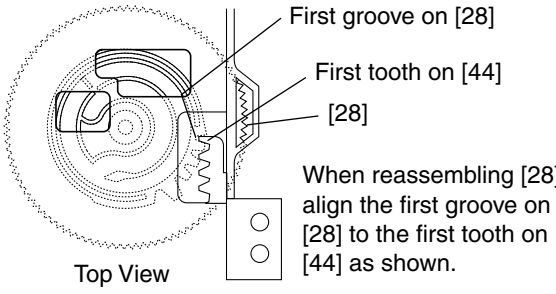
## Installation of [25]

Position of Mode Lever when installed




Align [25] and [28] as shown.




When reassembling [28], align the first groove on [28] to the first tooth on [44] as shown.

**Fig. DM13-2**

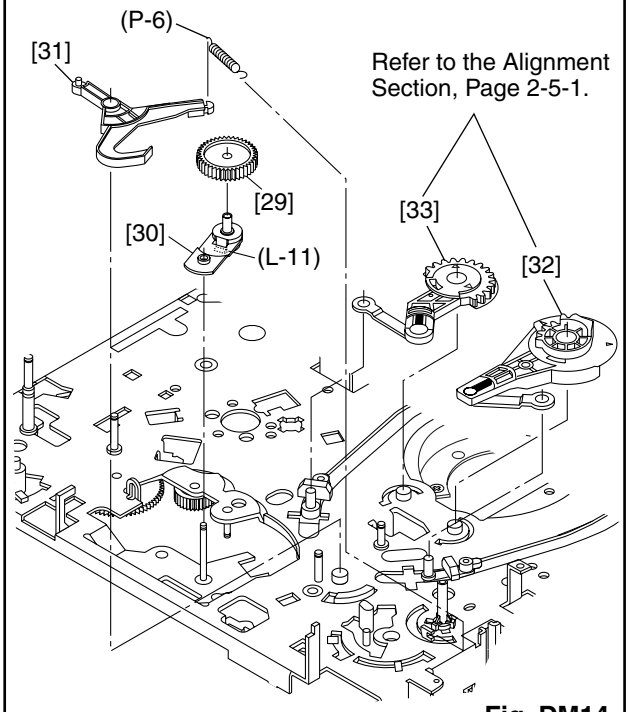



**Fig. DM14**

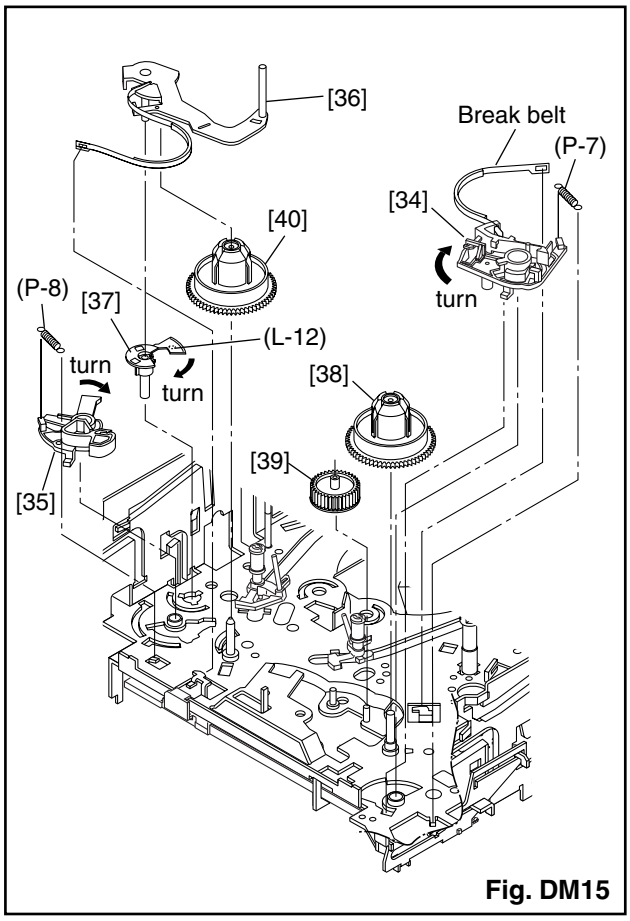



Fig. DM15

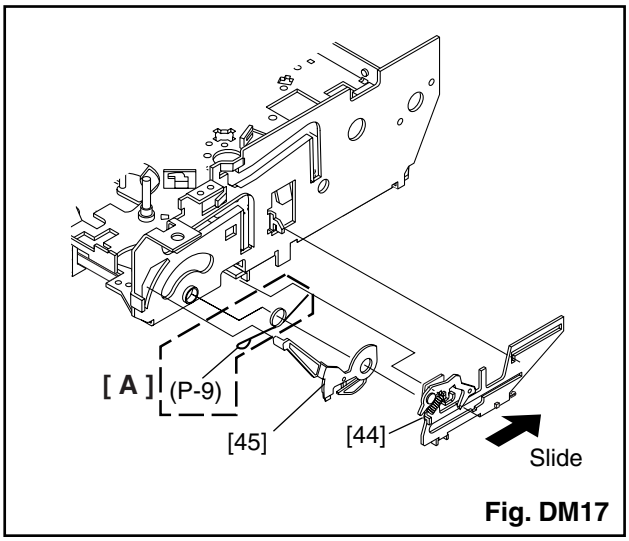



Fig. DM17

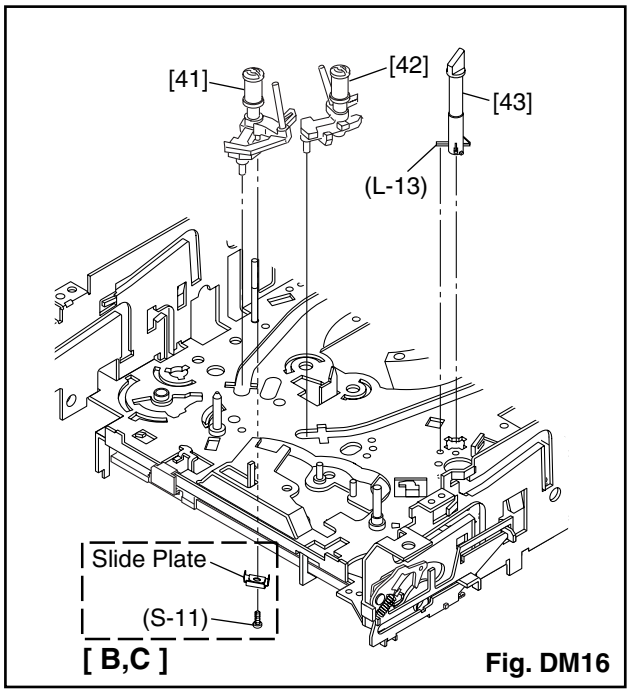



Fig. DM16

# ALIGNMENT PROCEDURES OF MECHANISM

The following procedures describe how to align the individual gears and levers that make up the tape loading/unloading mechanism. Since information about the state of the mechanism is provided to the System Control Circuit only through the Mode Switch, it is essential that the correct relationship between individual gears and levers be maintained.

**All alignments are to be performed with the mechanism in Eject mode,** in the sequence given. Each procedure assumes that all previous procedures have been completed.

**IMPORTANT:**

If any one of these alignments is not performed properly, even if off by only one tooth, the unit will unload or stop and it may result in damage to the mechanical or electrical parts.

## Alignment points in Eject Position

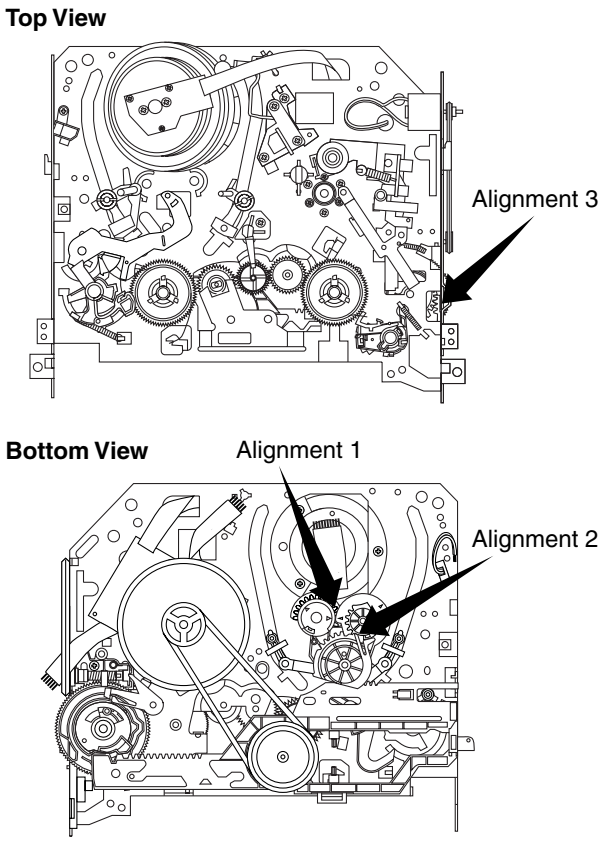



**Fig. AL1**

Alignment 1

## Loading Arm (SP) and (TU) Assembly

Install Loading Arm (SP) and (TU) Assembly so that their triangle marks point to each other as shown in Fig. AL2.

Alignment 2

## Mode Gear

Keeping the two triangles pointing at each other, install the Loading Arm (SP) Assembly so that the last tooth of the gear meets the most inside teeth of the Mode Gear. See Fig. AL2.

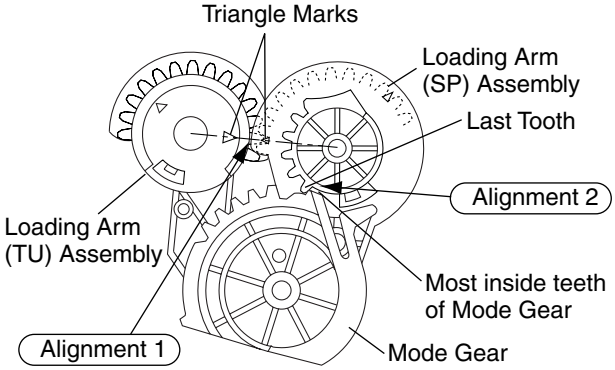



**Fig. AL2**

Alignment 3

## Cam Gear (A), Rack Assembly

Install the Rack Assembly so that the first tooth on the gear of the Rack Assembly meets the first groove on the Cam Gear (A) as shown in Fig. AL3.

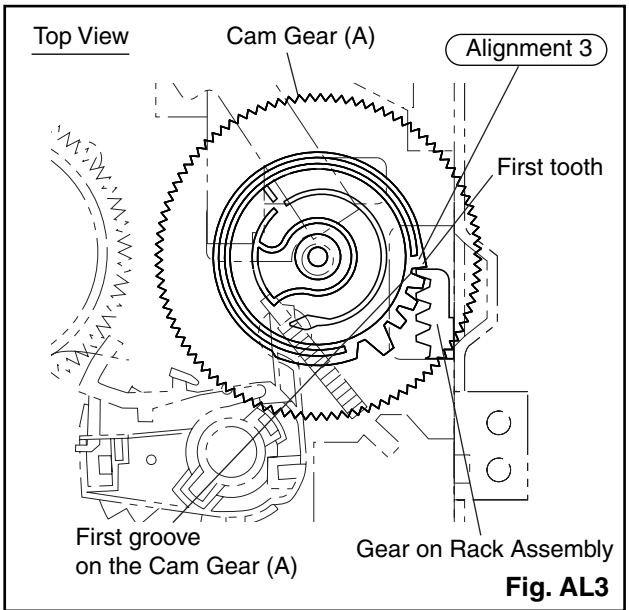
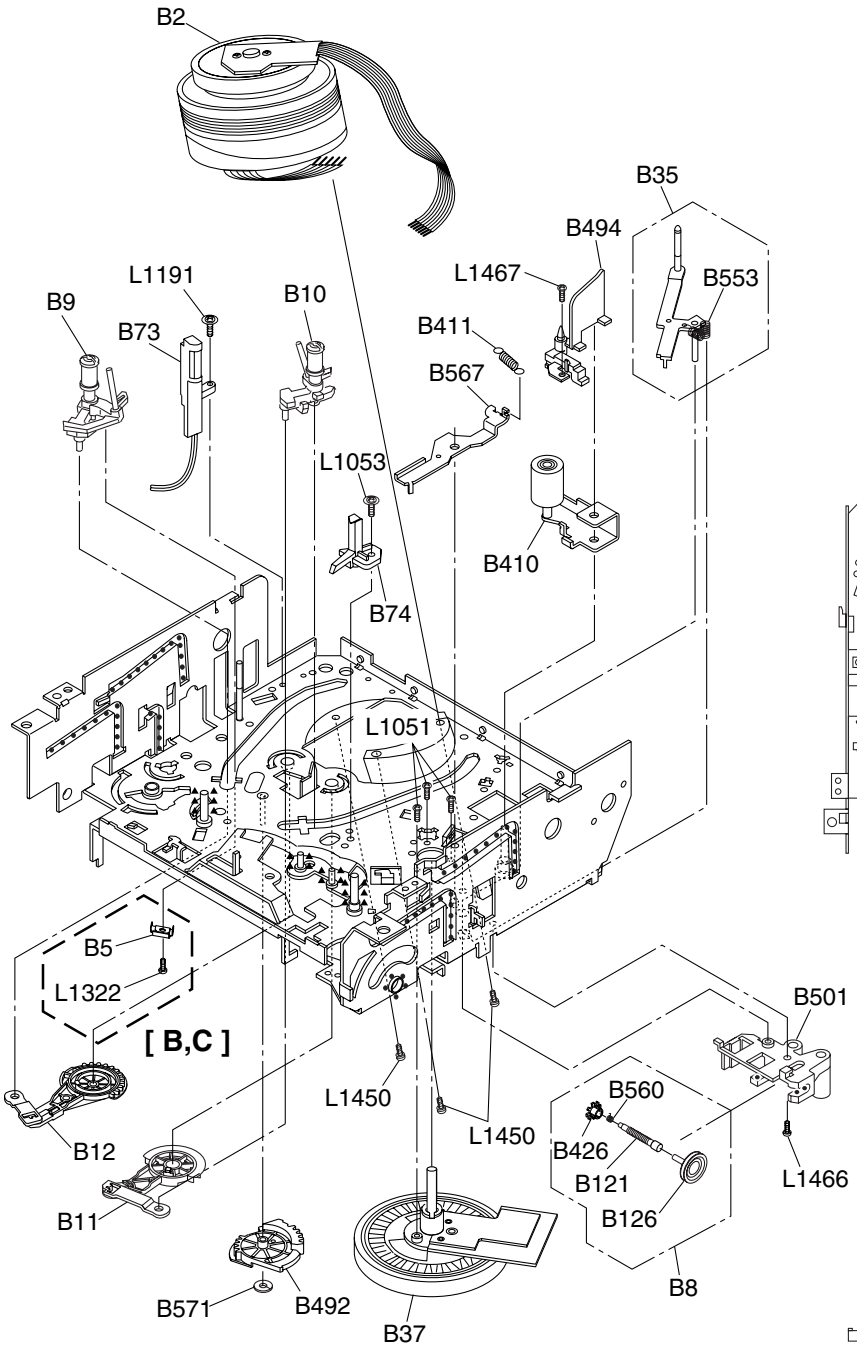



**Fig. AL3**

# DECK EXPLODED VIEWS

## Deck Mechanism View 1

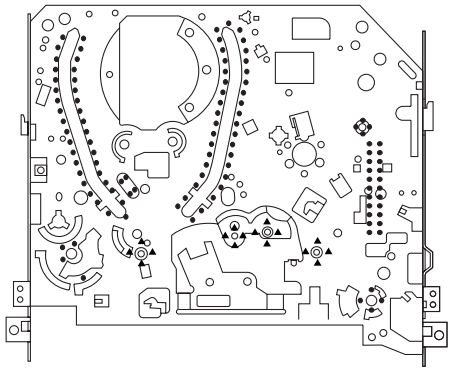
| Mark | Description |
|---|---|
| ●●●●● | Floil G-684G or Multemp MH-D (Blue grease) |
| ▲▲▲▲▲ | SLIDUS OIL #150 |



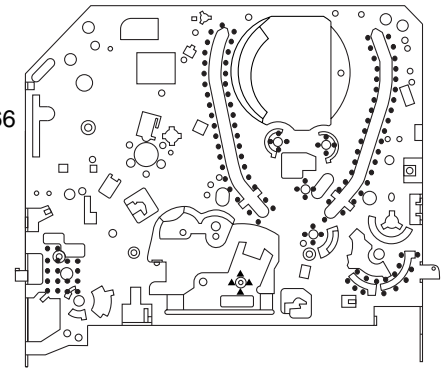

Some Ref. Numbers are not in sequence.

**Comparison Chart of Models and Marks**

| Model | Mark |
|---|---|
| N2426FT | A |
| N2440FL | B |
| N2460FL | C |

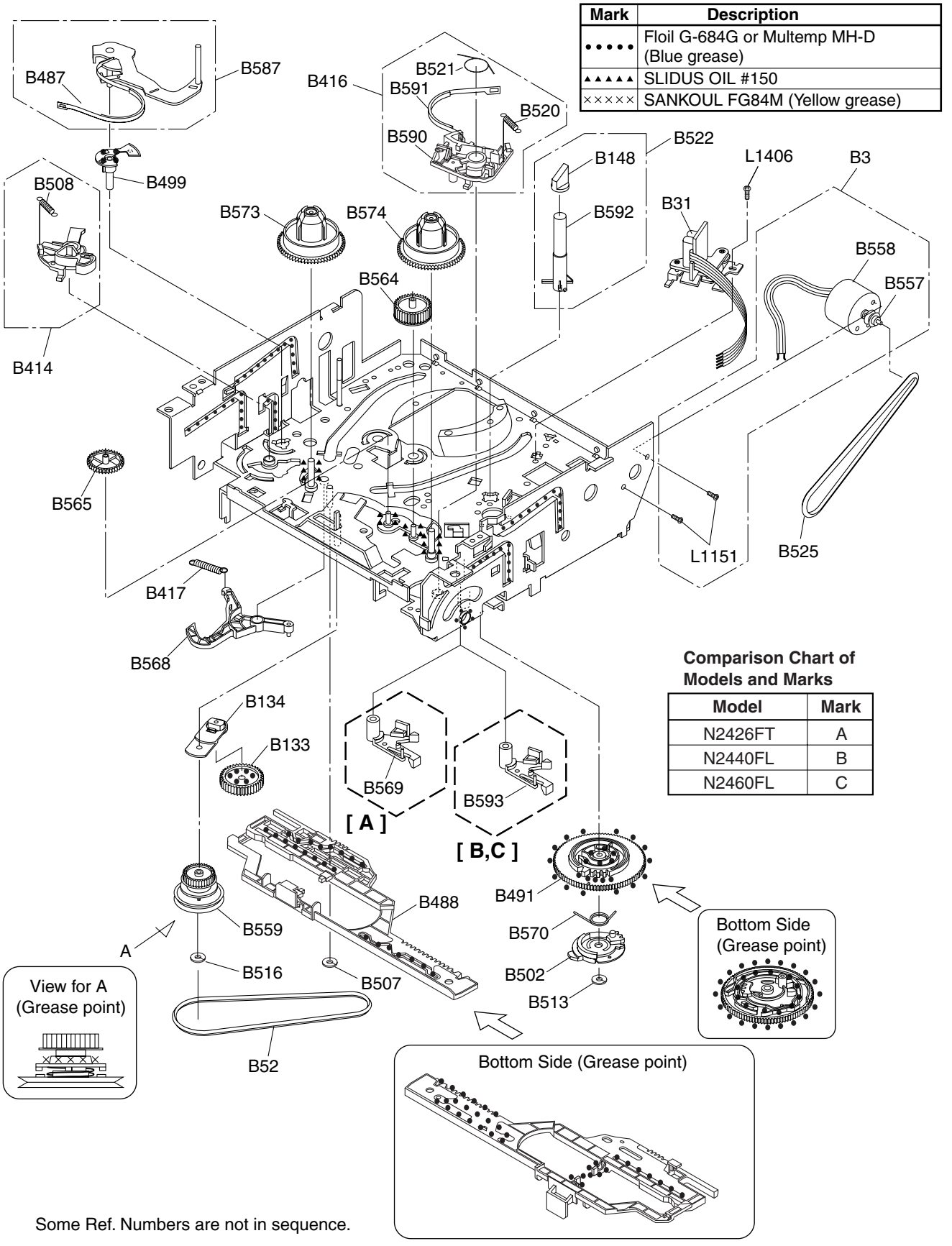


Chassis Assembly
Top View (Lubricating Point)



Chassis Assembly
Bottom View (Lubricating Point)

# Deck Mechanism View 2



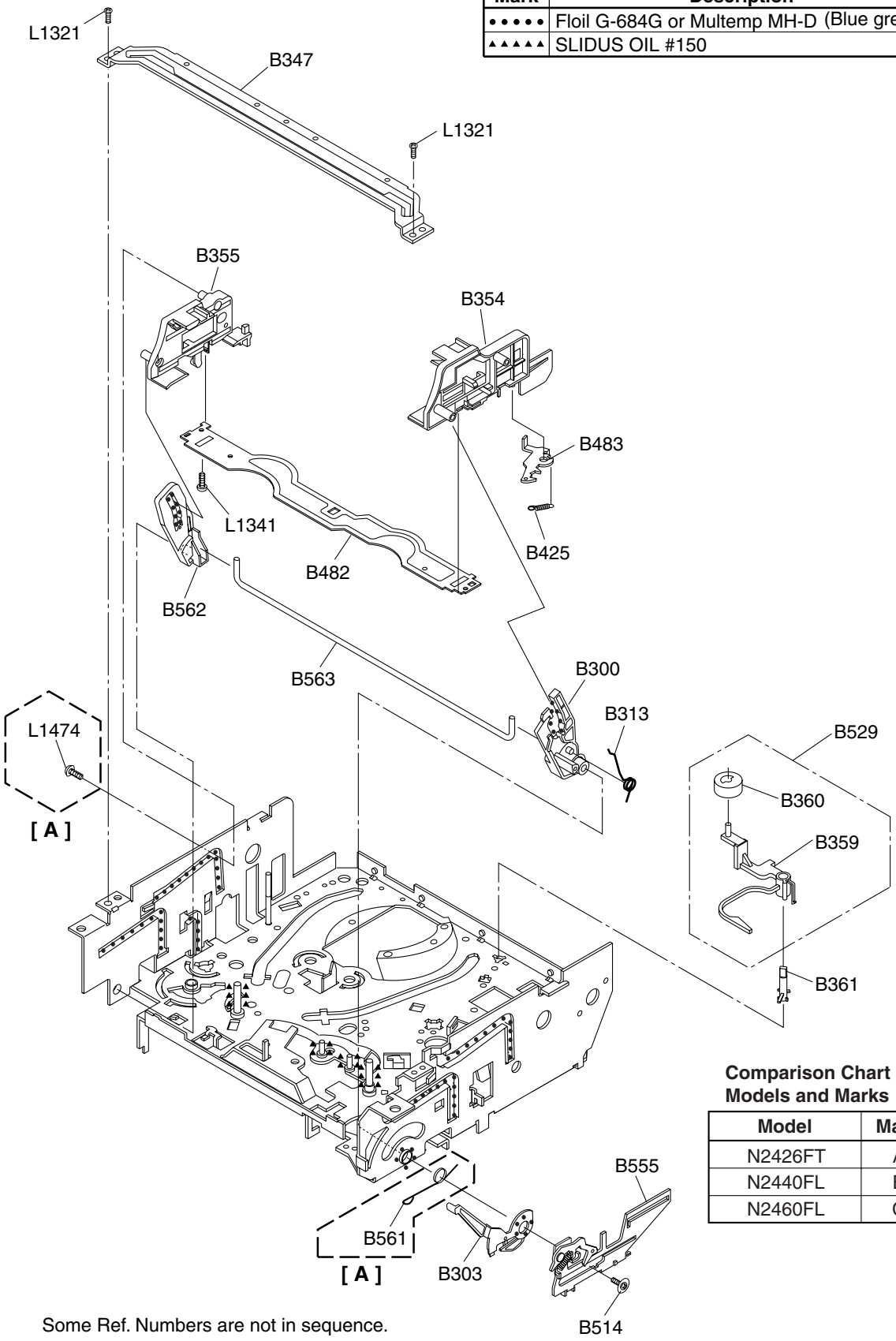

**Comparison Chart of Models and Marks**

| Model | Mark |
|---|---|
| N2426FT | A |
| N2440FL | B |
| N2460FL | C |

Some Ref. Numbers are not in sequence.

# Deck Mechanism View 3

| Mark | Description |
|---|---|
| ••••• | Floil G-684G or Multemp MH-D (Blue grease) |
| ▲▲▲▲▲ | SLIDUS OIL #150 |




**Comparison Chart of Models and Marks**

| Model | Mark |
|---|---|
| N2426FT | A |
| N2440FL | B |
| N2460FL | C |

Some Ref. Numbers are not in sequence.

# DECK PARTS LIST

### Comparison Chart of Models and Marks

| Model | Mark |
|---|---|
| N2426FL | A |
| N2440FL | B |
| N2460FL | C |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| B2 | A | CYLINDER ASSEMBLY MK12.5 NTSC 2HD | N2228CYL |
| B2 | B | CYLINDER ASSEMBLY MK12.5 NTSC 4HD | N2248CYL |
| B2 | C | CYLINDER ASSEMBLY MK12.5 NTSC 6HD | N226ACYL |
| B3 | | LOADING MOTOR ASSEMBLY MK14 | 1VSA12167 |
| B5 | B,C | SLIDE PLATE MK12.5 | 0VM416429 |
| B8 | | PULLEY ASSEMBLY MK12 | 0VSA13500 |
| B9 | | MOVING GUIDE S P.P MK12.5 | 0VSA14717 |
| B10 | | MOVING GUIDE T P.P MK12.5 | 0VSA14639 |
| B11 | | LOADING ARM(TU) ASSEMBLY MK12 | 0VSA13300 |
| B12 | | LOADING ARM(SP) ASSEMBLY MK12 | 0VSA13299 |
| B31 | A | AC HEAD ASSEMBLY(TVCR) MK12.5 | 0VSA14866 |
| B31 | B,C | AC HEAD ASSEMBLY MK12.5 | 0VSA14841 |
| B35 | | TAPE GUIDE ARM ASSEMBLY MK12.5 | 0VSA15014 |
| B37 | | CAPSTAN MOTOR 288/VCZC1300 | N9680CML |
| B52 | | CAP BELT MK10 | 0VM411138 |
| B73 | | FE HEAD(MK12) HVFHP0047A | DHVEC01AL007 |
| B74 | | PRISM MK10 | 0VM202870 |
| B121 | | WORM MK12 | 0VM414091 |
| B126 | | PULLEY MK12 | 0VM414330B |
| B133 | | IDLER GEAR MK12 | 0VM305738 |
| B134 | | IDLER ARM MK12 | 0VM305739 |
| B148 | | TG CAP MK11 | 0VM412972 |
| B300 | | C DRIVE LEVER(TU) MK12 | 0VM203773 |
| B303 | | F DOOR OPENER MK12 | 0VM203751C |
| B313 | | C DRIVE SPRING MK12 | 0VM414145 |
| B347 | | GUIDE HOLDER A MK10 | 0VM304920 |
| B354 | | SLIDER(TU) MK12 | 0VM101172F |
| B355 | | SLIDER(SP) MK12 | 0VM101182K |
| B359 | | CLEANER LEVER MK10 | 0VM304413 |
| B360 | | CLEANER ROLLER MK9 | 0VM410032C |
| B361 | | CL POST MK10 | 0VM411114 |
| B410 | | PINCH ARM(A) ASSEMBLY(5) MK12 | 0VSA13788 |
| B411 | | PINCH SPRING MK12 | 0VM414644 |
| B414 | | M BRAKE(SP) ASSEMBLY MK12.5 | 0VSA14994 |
| B416 | | M BRAKE(TU) ASSEMBLY MK12 | 0VSA13283 |
| B417 | | TENSION SPG(3002645) MK12.5 | 0VM414221G |
| B425 | | LOCK LEVER SPRING MK10 | 0VM411110 |
| B426 | | KICK PULLEY MK10 | 0VM411095 |
| B482 | | CASSETTE PLATE | 1VM220271 |
| B483 | | LOCK LEVER MK12 | 0VM414095 |
| B487 | | BAND BRAKE(SP) MK12.5 | 1VM320582 |
| B488 | | MODE LEVER MK12.5 | 0VM101351 |
| B491 | | CAM GEAR(A) MK12 | 0VM101174 |
| B492 | | MODE GEAR MK12 | 0VM203769 |
| B494 | | C DOOR OPENER MK12 | 0VM305719 |
| B499 | | T LEVER HOLDER MK12 | 0VM305729C |
| B501 | | WORM HOLDER MK12 | 0VM203767 |
| B502 | | CAM GEAR(B) MK12 | 0VM305721 |
| B507 | | REEL WASHER MK9 5*2.1*0.5 | 0VM410058 |
| B508 | | S BRAKE SPRING MK10 | 0VM411121 |
| B513 | | CAM WASHER MK12 | 0VM414741 |
| B514 | | SCREW RACK MK14 | 0VM411535B |
| B516 | | REEL WASHER MK9 5*2.1*0.5 | 0VM410058 |
| B520 | | TU BRAKE SPRING MK12 | 0VM414285 |
| B521 | | REV BRAKE SPRING MK12 | 0VM414222 |
| B522 | | TG POST ASSEMBLY MK11 | 0VSA12080 |
| B525 | | LDG BELT MK11 | 0VM412804 |
| B529 | | CLEANER ASSEMBLY MK10 | 0VSA11161 |
| B553 | | REV SPRING MK11 | 0VM412555 |
| B555 | | RACK ASSEMBLY MK14 | 1VSA11842 |
| B557 | | MOTOR PULLEY U5 | 0VM403205A |
| B558 | | LOADING MOTOR RF-500TB-12560 | MMDZB12MF003 |
| B559 | | CLUTCH ASSEMBLY MK12 | 0VSA13284 |
| B560 | | KICK SPRING MK10 | 0VM411475A |
| B561 | A | F DOOR SPRING MK10 | 0VM411430 |
| B562 | | C DRIVE LEVER(SP) MK12 | 0VM203772 |
| B563 | | SLIDER SHAFT MK12 | 0VM305762B |
| B564 | | M GEAR MK14 | 0VM305735B |
| B565 | | SENSOR GEAR MK12 | 0VM305736 |
| B567 | | PINCHI ARM(B) ASSEMBLY MK12.5 | 1VSA10010 |
| B568 | | BT ARM MK12 | 0VM305728 |
| B569 | A | CAM HOLDER(F) MK12.5 | 0VM306618 |
| B570 | | CAM RACK SPRING(HI) MK11 | 0VM412923 |
| B571 | | P.S.W CUT 1.6X4.0X0.5T | 0VM408485A |
| B573 | | REEL(SP)(D2) MK12 | 0VM203755 |
| B574 | | REEL(TU)(D2) MK12 | 0VM203756 |
| B587 | | TENSION LEVER ASSEMBLY MK12 | 0VSA13279 |
| B590 | | BRAKE ARM(TU) MK12 | 0VM203752E |
| B591 | | BAND BRAKE(TU) MK12 | 0VM305724C |
| B592 | | TG POST MK11 | 0VM412550 |
| B593 | B,C | CAM HOLDER ASSEMBLY MK12.5 | 0VSA14634 |
| L1051 | | SCREW B-TIGHT M2.6X6 PAN HEAD+ | GPJB9060 |
| L1053 | | SCREW S-TIGHT M2.6X8 WASHER HEAD+ | GCJS9080 |
| L1151 | | SCREW SEMS M2.6X4 PAN HEAD+ | CPJ39040 |
| L1191 | | SCREW S-TIGHT M2.6X8 WASHER HEAD+ | GCJS9080 |
| L1321 | | SCREW S-TIGHT M3X6 BIND HEAD+ | GBJS3060 |
| L1322 | B,C | SCREW B-TIGHT M2.3X4 BIND HEAD+ | GBJBY040 |
| L1341 | | SCREW P-TIGHT M2X6 PAN HEAD+ | GPJP2060 |
| L1406 | | AC HEAD SCREW MK14 | 0VM410964A |
| L1450 | | SCREW SEMS M2.6X5 PAN HEAD+ | CPJ39050 |
| L1466 | | SCREW S-TIGHT M2.6X6 BIND HEAD+ | GBJS9060 |
| L1467 | | SCREW M2.6X5 WASHER HEAD+ | SCJ39050 |
| L1474 | A | SCREW P-TIGHT M2.6X12 WASHER HEAD+ | GCJP9120 |